



April 1944

Volume III No. 7

DRAFT

Are you wondering what the real story on the draft at the University is? If you are, so are the rest of us, even Dean Feikner. Facts are very few and far between. At present we have ten men in the Engineering School who are deferred in order to go to school full time, and as of March 26 these ten men are still deferred. Dean Feikner stated that as far as he knew the status of these men would not be changed.

It appears that the men in industrial engineering, physicists, and chemists who are young, just as the Army and Navy do, and that there just aren't enough to go all the way around, so that corners have to be cut. It is safe to assume that men in defense industries who are doing irreplaceable work will not be drafted, but that some

(cont. on page 5)

A PAIR OF PANTS--AND A RIFLE

Dean Feikner

"Stripped for action" could be the title of scores of battle pictures coming in now from combat areas. It's a far cry from the niceties of an army on dress parade to soldiers in action where a pair of pants and a rifle are the most evident remainder of the total \$450 worth of uniform and equipment per man per parade.

War is accepted as an immensely wasteful enterprise--so wasteful that we take for granted the incredible millions of pounds of foods, tons of equipment and stocks of clothing that are literally thrown away. But these wastes have one lesson for all of us facing the future--just as the final essentials of new fighting are few, simple, and efficient--if the fight is

(cont. on page 5)

RESOLUTIONS

Resolutions are to be brought before the Society meetings with regards to the acquisition of new materials and equipment for the laboratories in the Engineering School. Discussions have been going on around the School on this subject and it seems to be the wish of the students to express in black and white that the next every step possible is to be taken in order to get these materials with what money is available. They also wish to see what can be done about increasing the library facilities for the engineering students. At present, however, we have only a set of the Engineering books that are needed, and those only in the older

(cont. on page 6)

SCHEDULE

- | | |
|----------|--------------------------------------------------------------------------------|
| April 5 | Society Meetings |
| | <u>APPE</u> "Electricity and the Airplane"--Colonel Molloy |
| | <u>APPE</u> "Observatories"--Robert Randberg |
| | <u>APPE</u> "Geology and its Application to Military Operations"--Capt. Davies |
| | Sigma Tau (short) |
| April 12 | Theta Tau (short) |
| | Engineers' Council |
| April 19 | Sigma Tau (long) |
| April 26 | Theta Tau (long) |
| May 3 | Society Meetings (election) |

THE MECHELECIIV STAFF

Editor	Lou Berkley
Associate Editor	Fred Holcomb
Art Editor	Roland M. Austin
Column Coord.	H.A. Miklofsy
Distribution Manager	Allan Ensign
Columnists	
ME and You	Allan Ensign
Short Circuits	Bill Andrews
A. B. C. E.	George Kilpatrick
Meta Tau	George Rida
Sigma Tau	Nick Roffolo
Toist	Harmon Tyler

AN IDEA

There will the Engineers of tomorrow come from? Not the Engineers of the future, but of the next few years. Today we find the young Engineer in greater and greater demand. The Army and Navy say that they can take only the young. Industry says it can use only the young, and they both want them now. But in the future, if we curtail our educational programs as we have been doing in the past few months there will be no young Engineers. What is the answer? Isn't it still possible that we who are still in school can help find that answer?

Education today is taking a very hard beating. We are the largest Engineering school in the country, with less than 250 students. We have most of the students because they are working in essential occupations. In the school, as full time students, we can have only ten deferred men. Presumably that will still make us the largest school in the country.

What we would like to see is a consolidation of the presently deferred Engineering students in the country. Have them all go to one university where the facilities are good. Bring to this university the best professors in the field and continue there on what is almost a peacetime scale, letting the Government supply the living accommodations, and the student the tuition charges. The

(cont. on page 6)

ENGINEERS AND PEOPLE

ALLAN B. ENSIGN.....One of our full-time students...born in Arlington on May 25, 1923...went to Washington and Lee high school, where he was a member of the Cadets, Science Club, and the student body...graduated in June of '41...started G.V. Engineering School in Sept. 1941 as Mechanical Engineer... at present is member of Theta Tau, ASME, SAM (Executive Board), Mecheleciv staff, Rifle Club...interested in photography and railroading (and, we suspect, women)...enjoys baseball and swimming, music, chess and dogs... he is a tall serious-looking chap who gets things done...he hopes to join the Navy when he graduates.

ALFRED (AL) H. BURAUCK...Born Sept. 26, 1919 in Baltimore Md., lived there five years...moved to Utica N.Y., stayed there six years...attended a one-room school for the six years (after he quit, the school closed down)...moved to Newark N.J., finished grammar school and high school there...president of Science Club and brot rats and mice for two years...graduated Weequahic H. S. and went to State Teachers College at Montclair, N.J., majoring in Science and specializing in Biology (cont. on page 6)

SAM APRIL MEETING

Industrial Post War Planning will be the subject of the talk given by Mr. S.T. Henry, Assistant to the President, McGraw Hill Co. and treasurer, National Planning Assoc., at the next meeting of the S.A.M. on April 13, at 8:30. This meeting will be of particular interest to Engineers in that it will cover production problems in the post war economy. Don Feiker will also make a speech in connection with the same subject, which he covered in his column on the first page this month. Last month Dr. J.T. Dietz, Assistant director of the TPI spoke on the operation of that organization. Mr. Perkins, sent here from England also said a few words on England's methods of training.

ME and YOU

The annual ASME student speaking contest headlined the March meeting. The winner—Lylo Turbell; his subject—The Gas Turbine; the prize—M Rks' Mechanical Engineers' Handbook. In skeleton form, that is the result of the recent ASME contest. Runners-up were Tait Hunter on "Centrifugal Casting" and Lefe Grim on "Instrumentation in the Study of Diesel Engine Combustion." All three talks were of typical high ME calibre. Winner Turbell is to go, gratis, to Johns Hopkins on April 21 to speak before the regional ASME Conference in competition with men of other engineering schools for a regional prize. Congratulations and the best of luck, fellow. Dirk Brady was the winner of last year's contest here at G. . . as you probably remember.

The election of Dick Jetton as the new ASME delegate to the Engineers' Council... something Dick really deserved... replaced graduate Kincaid. This topped off the business of the session.

Showing at the ASME the tre in March was a colored sound film--- "Flying Fortress"---the story of the growing pains of the engineering masterpiece. A substantial contribution from the ASME chie's rung down the curtain on the meeting.

Dave Haupt has lately been a man of MDRL; Jim Kincaid plans to work in a war plant for a few months; Ray Casell is in the Army; and Hunter is on his way into the Merchant Marine. Where are some more of the old ME's? If this contingent doesn't put a decided crimp in the enemy's plans, we will be very much surprised. Good Luck to you, gentlemen.

An entirely new field of Engineering---"Research Laboratory Methods"---will be the subject for the coming April 5 meeting, with Commander Parkinson, former head of the Research Laboratory of Johns-Manville as the scheduled speaker.

SHORT CIRCUITS

Do you hate yourself? Do you have bad habits? Dr. Heine promises to stop them and make you proud of yourself. Recommendations can be obtained in his office or from Nick Toffolo and Bill Andrews. The dear president of the ASME, Dr. Heine, wants to make sure no ME's are 4-F and will be there to keep him company. Hi Buck!

At the last meeting Al Barunk surprised himself and became vice-president of the Society. He presented Dan Hunter, who spoke on "Frequency Modulation," a subject now close to the hearts of our future service Engineers. However, Girard Jetton made the big hit as usual as the social chairman. We always welcome good--- By the way, George Conrad, the Sec-Treas. finally gave his report---there's still some money left even with Conrad keeping it.

Everyone knows it's not pure luck that the ME's placed the first three on the graduating list. With brains and brawn Joe Ballard had the best, followed by Henry Heine and Bill Andrews. (skip a few and there's Toffolo). However, Ballard got the measles to stay out of school and with the rest fooling in politics even the ME's might have a chance to pull in someplace. Let's hope when Nick says vote for US you vote for US.

At the next meeting, April 5, in D-105, Col. Ted Holiday will speak on "Electricity in the Airplane." Col. Holiday is Head of the Electrical Branch, Engineering Division of the United States Army Air Force. The services will be doing their best to inform us this month, with an Army Captain at the CE meeting, a Commander at the ME meeting, and the Colonel here.

STUDENT COUNCIL ELECTIONS

It has been unofficially announced that Jean Crowther (Allied) and Tony Prichard (USL) will run for president.

At the meeting last month the AGC was fortunate in having as the speaker Mr. Herbert E. Eaton, Chief of the Hydrographic Section of the Hydrographic Bureau of Standards, who spoke on "A Model Test of Condensing Water Circulation in a Basin." In his talk, which was chuck-full of hydraulics and mathematics, he discussed how a model was built and used to solve an engineering problem that existed at the Philadelphia Navy Yard. Mr. Eaton was kind enough to present those in attendance with mimeographed sheets containing the mathematical equations used in his talk.

As the speaker of the evening at our meeting on April 5, the chapter will present Capt. W. E. Davies of the U.S. Army Engineers Corps. His subject will be "Geology and its Application to Military Operations." Mr. Davies is an interesting speaker as well as an authority on Geology, and all who attend are sure to find this a worthwhile meeting.

Looking a bit into the future, we wish to announce that the May meeting of the chapter will be devoted to the reading of student papers, so we are warning all you G's to get started now, instead of waiting till the last minute.

Before closing, we wish to thank Mr. S. Lowitz and his parents for helping to make the AGC party such a successful affair. All the ME's and WE's present seemed to enjoy it.

THETA TAU (cont.)

son, shoots.

At the last meeting the letter was written to Ray Casella, and it was reported that Stan Machen was to have his induction physical, since which time he had had some and is now signed up with the Marines, with a stay of induction to see if he can't get his commission in the Navy. It was decided that Theta Tau should have a copy of Foy's Rules of Order, which was presented at the Banquet by Student Ritter.

The big news this month is the Birthday Initiation, Banquet, and Dance at the Poger Smith Hotel on Saturday the 18th. Allan Ensign initiated in the early evening with good wishes and hopes of all the brothers. We would like to thank him out to congratulate him now. Later in the evening at the Banquet he made a very sincere speech, as did Tom Foiker and Deacon Amos. We will meet the Banquet with the knowledge that Engineering school could carry on the face of all obstacles, as long as there was an Engineering School there would be an active factor of Theta Tau on the Georgia Tech campus. The dance was further evidence that the Engineering School was as yet a far cry from being dead in any manner. Bob and the aristocrats, the dance band, and the orchestra made some very fine music, and the intermission the harmonizers and Gams kept alive with more music.

Though the Alumni were very noticeable in their absence, they did show up. The three G's in the dalls, Bill, Bert, and Bob, were in their blues, Bill and Bob in the uniform of the Coast and Geodetic Survey, and Bert in the Navy uniform. George Kelly of the United States Army dropped in for the dance. Of course Frank Mitchell was there—what would Theta Tau dance or banquet be without him? Al Holvestine, Al Shytle, Harold Link were the others present. There are still a lot of Alumni in town who weren't there. It is up to us as actives to give them the shove and see to it that they come out. The notices were sent out in plenty of time, and the price was right, so the only thing left for us to do is to let them out. Contact each and every one.

The fraternity seems to be getting more and more dependent on the women. At the Initiation, etc. we were indebted to Mrs. Machen for the wonderful Dixie cake, and to Harmon Tyler for the work she did on the Menu and (cont. to the left)

SIGMA TAU

The big event of the year for Sigma Tau comes Saturday April 22 at the Roger Smith Hotel. An initiation at six o'clock will be followed by a banquet in celebration. We have two pledges, Bill Risely and Jim Skiles, and a possibility of two or three more to be initiated. The remaining men are now up for faculty approval so that their names cannot be announced at this time.

Our group picture has been forwarded to the Cherry Tree and we urge all brothers to obtain a copy so that can see if they are photogenic. This also helps to support school activity which is a worthwhile thing for Sigma Tau's to do.

Joe Ballard is just about over his case of measles and expects to report next week. We hope he hasn't missed too much of that Sokolnikoff stuff. Brother Trebell carried on nobly in his absence. Brother Schreiner is still around (the looser) and making himself obnoxious by his gloating over the rest of the hard-working suffering brothers.

We would also like to mention that our coaching classes have slightly bogged down. We have three or four requests which so far no one has "volunteered" to undertake. You wouldn't like to see a draft movement get under way, would you? The subjects are EE 10, Physics 7, and Dynamics. Step right up boys, and let brother Toledo know of your intentions.

The only news we have of the Alumni front is that Brother Esig Jackson is still in town.

We'll be looking for you at the next meeting and meanwhile don't forget April 22, Roger Smith Hotel.

A PAIR OF PANTS - AND A RIFLE

(cont. from page 1)

to be won, so peace time production faces a battle for eliminating the wasteful. The one way to conserve and utilize materials and time after the war so as to be able to pay the cost in taxes of the waste and destruction of the war, is to look at every job from a "pants and rifle viewpoint."

Every dollar of price for future American living standards must carry its proportion of the costs of war. And if those costs are to be carried under reasonable prices, every hour of labor, every pound of material, every method, must produce as wastelossless as possible.

This is a challenge to technologists and to engineers. We have done it before and we can do it again. The drive on the elimination of waste, by labor, by capital and by management is essential. We must throw out old concepts and, like the soldier in the battle field, fight with the least burden, the most effective weapons.

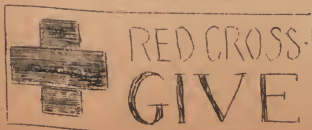
The next twenty years must utilize the kind of thing engineers are trained to do. We can save the peace.

DRAFT

(cont. from page 1)

men who are now considered essential will be found not irreplaceable.

Each and every one of us will be getting a "Greetings" from the president in the very near future regardless of our draft status, but don't think that this will mean you are as good as in the Army. The Army still has a good fight to get you after this. If you work in an essential plant and you receive a 1-A classification your case will be sent to the Appeal Board; you must then receive a preinduction physical before the Appeal Board can take action. There will be more 2-3 classifications issued, and Engineers will be getting them, so you're not in the Army yet.





SCHOOL DAZE

Dentist; Gas or chloroform?
Unlucky one: Ether.

"You're the first girl I ever
kissed, dearest," said the En-
gineer as he shifted gears
with his foot.

And then there was the conton-
tionist who dreamed that he was
eating dried peaches and chewed
his ears off in his sleep.

Waiter: Will you have a slice
of pie, sir?
Is it customary?
No, huckleberry.

In the Navy it was my height.
In the Air Corps--bad sight.
In the Marines I was too short.
But in the Draft, I'm just right.

We're broom makers,
We sweep together,
Dust we two.

"WE'RE NOT MATHS OVER AND OVER ---
EQU = $\frac{2}{3}$ (EMITTING 4 + 3 MACRO 65)
- AS ANY ONE CAN MAINLY SEE 5

ENGINEERS and PEOPLE (cont. from page 2)

(four years)...member of Science Club,
Psychology Club, and dorm kitchen staff
...graduated in '41 with a B.A. degree
...moved to Washington in July of '41
and started at Naval Research Lab...
began GWU in Sept of '41...member of
Theta Tau, vice-chairman and program
committee of AIEE...favorite drink:
anything wet...favorite time of day:
1:00 P.M., when he's usually sleeping...
marital status--strictly unattached,
no prospects...likes plays, music, and
any good book...dislikes vary from
day to day.

AN IDEA (cont. from page 2)

rest of the Engineering schools would
have to close down or continue on de-
fense courses only, but the one or
two that did get the students could
carry on more efficiently and we could
get more and better students and En-
gineers than ever before.

PROPOSALS (cont. from page 1)

and obsolete editions. While the night
students have access to technical li-
braries where they work, the day stu-
dents haven't such advantages here at
the University. It has come to their
attention that it often happens that
when the Library sends requests to the
Engineering School for lists of books
that might be bought, these lists are
not made up. If these funds are
available, the students want these
books to be bought, and to be kept
in one location at the Library.

The EE's are also talking of re-
questing another course in the Engineer-
ing curriculum: an Engineering Elec-
tronics course. They want one that
might replace the electronics course
now taught by the Physics Dept., or one
that might follow it which teaches
electronics from the Electrical and
Radio Engineer's angle.